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What is claimed is:

- 1                   1. A surface lighting device comprising:  
2                   a light source;  
3                   a light-guide-member including:  
4                   an incident plane for receiving light emitted from said light source;  
5                   a light-guiding-section for guiding the light incident on said incident  
6 plane; and  
7                   a light-emitting-section for emitting the light travelling through said  
8 light-guiding-section,

9                   wherein a length of shorter side of said light-guiding-section is not  
10 more than 8 mm, an area of said light-emitting-section is not less than 500 mm<sup>2</sup>, a  
11 ratio of minimum luminance vs. maximum luminance of said light-emitting-  
12 section is not less than 0.3, an average luminance of said light-emitting-section  
13 ranges from 1 cd/m<sup>2</sup> to 200 cd/m<sup>2</sup>, and a luminance change amount per unit  
14 length is not more than (average luminance) × 100 cd/m<sup>3</sup>.

- 1                   2. The surface lighting device as defined in Claim 1 further  
2 comprising a barrier plate for blocking the light emitted from entering directly to  
3 said light-guide-member.

- 1                   3. The surface lighting device as defined in Claim 2 wherein said  
2 barrier plate has a reflecting function.

- 1                   4. The surface lighting device as defined in Claim 2 further  
2 comprising a holder for accommodating said light-guide-member, wherein said  
3 holder and said barrier plate are unitarily molded.

- 1                   5. The surface lighting device as defined in Claim 2 further

2 comprising a reflecting member for reflecting the light emitted toward outer  
3 circumference of said light-guiding-section.

1 6. The surface lighting device as defined in Claim 5 wherein said  
2 holder, said barrier plate and said reflecting member are unitarily molded.

1 7. The surface lighting device as defined in Claim 1 wherein the  
2 emitted light reflects on outer circumference of said light-guiding-section, then  
3 travels to said light-emitting-section.

1 8. The surface lighting device as defined in Claim 1 further  
2 comprising a light scattering layer disposed on a face opposite to said light-  
3 emitting-section.

1 9. The surface lighting device as defined in Claim 1 wherein said  
2 light-emitting-section has a light-scattering-member thereon.

1 10. The surface lighting device as defined in Claim 1 wherein a half  
2 width of a light emitting wavelength of said light source is not more than 50 nano-  
3 meter.

1 11. The surface lighting device as defined in Claim 1 wherein said  
2 light source is a light-emitting-diode having a cylindrical lens.

1 12. The surface lighting device as defined in Claim 1 wherein said  
2 light source is disposed on a corner of said light-guide-member.

1 13. The surface lighting device as defined in Claim 12 wherein said  
2 light-guiding-section has a reflecting face.

1 14. A portable terminal comprising:

2 a display device; and

3 a surface lighting device comprising:

4 a light source;

5 a light-guide-member including:

6 a light inlet;

7 a light-guiding-section; and

8 a light-emitting-section,

9 wherein a length of shorter side of said light-guiding-section is not  
10 more than 8 mm, an area of said light-emitting-section is not less than 500 mm<sup>2</sup>, a  
11 ratio of minimum luminance vs. maximum luminance of said light-emitting-  
12 section is not less than 0.3, an average luminance of said light-emitting-section  
13 ranges from 1 cd/m<sup>2</sup> to 200 cd/m<sup>2</sup>, and a luminance change amount per unit  
14 length is not more than (average luminance)  $\times$  100 cd/m<sup>3</sup>.

1 15. A surface lighting device comprising:

2 a light source having a plurality of light emitting elements;

3 a light-guide-member including:

4 a light inlet;

5 a light-guiding-section for guiding light; and

6 a light-emitting-section,

7 wherein a length of shorter side of said light-guiding-section is not  
8 more than 8 mm, an area of said light-emitting-section is not less than 500 mm<sup>2</sup>, a  
9 ratio of minimum luminance vs. maximum luminance of said light-emitting-  
10 section is not less than 0.3, an average luminance of said light-emitting-section  
11 ranges from 1 cd/m<sup>2</sup> to 200 cd/m<sup>2</sup>, and a luminance change amount per unit  
12 length is not more than (average luminance)  $\times$  100 cd/m<sup>3</sup>.

1           16. The surface lighting device as defined in Claim 15 wherein said  
2 light source is disposed on a corner of said light-guide-member, and an  
3 approximation line connecting respective emitting centers of said light emitting  
4 elements is disposed to form approximately right angles with a diagonal line of  
5 said light-guide-member.

1           17. The surface lighting device as defined in Claim 15 wherein said  
2 light source is disposed on a corner of said light-guide-member, and an  
3 approximation line connecting respective emitting centers of said light emitting  
4 elements is disposed to form an angle with a longer side of said light-emitting-  
5 section, said angle being greater than another angle formed by the approximation  
6 line and a shorter side of said light-emitting-section.

1           18. The surface lighting device as defined in Claim 15 wherein the  
2 approximation line is disposed to separate said light-emitting-section into two  
3 approximately equivalent areas.

1           19. The surface lighting device as defined in Claim 15, wherein the  
2 light travelling in a third direction is guided from around a center of an end face  
3 of said light-guide-member into said light-guide-member wherein a first direction  
4 runs along a main light-axis of said light source, and a second direction runs  
5 along a light axis toward said light-emitting-section from said light-guiding-  
6 section, the third direction runs in a plane other than a plane including the first  
7 and the second directions,

8           wherein an approximation line connecting respective emitting  
9 centers of said light-emitting-elements is disposed to be approximately parallel to  
10 the second direction.

1           20. The surface lighting device as defined in Claim 15, wherein  
2 said light source comprises:

3 an insulated substrate to be mounted with said light emitting  
4 elements;

5 a light-transparent member disposed on said substrate to cover said  
6 light emitting elements; and

7 an electrode disposed on at least an upper face of said substrate.

1 21. The surface lighting device as defined in Claim 15, wherein  
2 said respective light emitting elements is disposed at approximately the same  
3 distance from said light-guide-member.

1 22. The surface lighting device as defined in Claim 15, wherein  
2 said light emitting elements change color tones by varying electric current flowing  
3 therethrough.

1 23. A surface lighting device comprising:

2 a light-guide-member including:

3 a light-inlet;

4 a light-guiding-section;

5 a light-emitting-section; and

6 a light source disposed on a corner of said light-guide-member,

7 wherein an angle formed by two planes of said light-guide-member,  
8 where said light-inlet exists between the two planes, is an acute angle.

1 24. The surface lighting device as defined in Claim 23, wherein at  
2 least one of the two planes approaches a emitting face at greater distance from  
3 said light source.

1 25. The surface lighting device as defined in Claim 23 further

2 comprising a diffused reflection board disposed parallel to said light-emitting-  
3 section.

1 26. The surface lighting device as defined in Claim 24, wherein at  
2 least one of the two planes approaches a emitting face at greater distance from  
3 said light source.

1 27. The surface lighting device as defined in Claim 23, wherein  
2 said light-inlet includes an end face slant with respect to said light-emitting-section  
3 and an incident plane, and said light source is disposed on an opposite side of said  
4 end face, where said incident face exists in-between.

1 28. The surface lighting device as defined in Claim 27, wherein the  
2 end face of said light-inlet comprises a curved face widening in sector shape from  
3 near said light source.

1 29. The surface lighting device as defined in Claim 23, wherein  
2 said light source is a light-emitting-diode having a substantially concave face.

1 30. The surface lighting device as defined in Claim 23, wherein  
2 said light source is a single piece of light-emitting-diode.

1 31. The surface lighting device as defined in Claim 23, wherein the  
2 light-emitting-diode comprises a plurality of light emitting elements.

1 32. A display unit comprising:  
2 a liquid crystal display element; and  
3 a surface lighting device comprising;  
4 a light-guide-member including:  
5 a light-inlet;

6 a light-guiding-section; and  
7 a light-emitting-section; and  
8 a light source disposed on a corner of said light-guide-member,  
9 wherein an angle formed by two planes of said light-guide-member,  
10 where said light-inlet exists between the two planes, is an acute angle.

1 33. The display unit as defined in Claim 32, wherein said light  
2 source is disposed on a side where a wiring of the liquid crystal display element is  
3 led out.

1 34. The surface lighting device as defined in Claim 32, wherein two  
2 sides adjacent to said light source are longer than other sides respectively.

1 35. The surface lighting device as defined in Claim 32, wherein  
2 said light source includes at least one light-emitting-element.

1 36. A portable terminal comprising:  
2 a liquid crystal display element; and  
3 a surface lighting device comprising;  
4 a light-guide-member including:  
5 a light-inlet;  
6 a light-guiding-section; and  
7 a light-emitting-section; and  
8 a light source disposed on a corner of said light-guide-member.  
9 wherein an angle formed by two planes of said light-guide-member.



10 where said light-inlet exists between the two planes, is an acute angle.

1 37. A surface lighting device comprising:

2 a light-guide-member including:

3 a light-inlet;

4 a light-guiding-section; and

5 a light-emitting-section; and

6 a light source disposed on a corner of said light-guide-member;

7 wherein at least one plate of a first and a second plates, between  
8 which said light-inlet exists, approaches said light-emitting-section at a greater  
9 distance from said light source.

1 38. The surface lighting device as defined in Claim 37, wherein  
2 said light-inlet comprises a slanted end face of said light-guide-member and a  
3 reflecting material is disposed on said end face, and said light source is disposed  
4 under said light-inlet.

1 39. A surface lighting device comprising:

2 a light-guide-member including:

3 a light-inlet;

4 a light-guiding-section; and

5 a light-emitting-section; and

6 a light source disposed on a corner of said light-guide-member;

7 wherein a first side and a second side of said light-guide-member

8     cramp a small side including said light-inlet, where a third side is opposite to the  
9     first side and a fourth side is opposite to the second side,

10             wherein a first intersecting point is formed by the first and second  
11     sides, and a second intersecting point is formed by the third and the fourth sides,  
12     and a line connecting the first and the second intersecting points forms an angle  
13     ranging from 75 degrees to 105 degrees with a line connecting a closer end point  
14     of the first side to said light source and a closer end point of the second side to  
15     said light source.

1             40. A display unit comprising:

2             a surface lighting device comprising:

3             a light-guide-member including:

4             a light-inlet;

5             a light-guiding-section; and

6             a light-emitting-section; and

7             a light source disposed on a corner of said light-guide-member,

8             wherein an angle formed by two planes of said light-guide-member,  
9     where said light-inlet exists between the two planes, is an acute angle,

10            a holder for accommodating said light-guide-member;

11            a liquid crystal display element;

12            a circuit board; and

13            a wiring for coupling said liquid crystal display element with said  
14     circuit substrate,

15            wherein said light-guide-member has a first side above which said  
16 wiring is routed, said holder has a second side on an outer frame thereof and  
17 above which said wiring is routed, and said liquid-crystal-display element has a  
18 third side from which said wiring is led out,

19            wherein said first side is not parallel to said second side, and said  
20 first side is approximately parallel to said third side.

1            41. The display unit as defined in Claim 40 wherein said surface  
2 lighting device is disposed behind said liquid crystal display element.

1            42. The display unit as defined in Claim 40, wherein said light  
2 source is disposed on the side of said surface lighting device where said wiring is  
3 routed.

1            43. A portable terminal comprising:

2            a surface lighting device comprising:

3            a light-guide-member including:

4            a light-inlet;

5            a light-guiding-section; and

6            a light-emitting-section; and

7            a light source disposed on a corner of said light-guide-member,

8            wherein an angle formed by two planes of said light-guide-member,  
9 where said light-inlet exists between the two planes, is an acute angle, and

10           a liquid crystal display element.

1            44. A portable terminal comprising:

2 a surface lighting device comprising:

3 a light-guide-member including:

4 a light-inlet;

5 a light-guiding-section; and

6 a light-emitting-section; and

7 a light source disposed on a corner of said light-guide-member,

8 wherein an angle formed by two planes of said light-guide-member,

9 where said light-inlet exists between the two planes, is an acute angle,

10 a holder for accommodating said light-guide-member;

11 a liquid crystal display element;

12 a circuit board; and

13 a wiring for coupling said liquid crystal display element with said  
14 circuit substrate,

15 wherein said light-guide-member has a first side above which said  
16 connector is routed, said holder has a second side on an outer frame thereof and  
17 above which said connector is routed, and said liquid-crystal-display element has  
18 a third side from which said connector is led out,

19 wherein said first side is not parallel to said second side, and said  
20 first side is approximately parallel to said third side.

1 45. A surface lighting device comprising:

2 a light-guide-member including;

3 a light-inlet;  
4 a light-guiding-section;  
5 a light-emitting-section;  
6 a light source disposed on a corner of said light-guide-member; and  
7 a light-reflecting-and-diffusion-section having a light-scattering-  
8 section and a smooth section at least one of faces of said light-emitting-section,  
9 wherein a rate of an area occupied by the light-scattering-section on  
10 said light-reflecting-and-diffusion-section is uneven.

1 46. The surface lighting device as defined in Claim 45 further  
2 comprising a reflecting layer adjacent to the light-scattering-section.

1 47. The surface lighting device as defined in Claim 45, wherein the  
2 area occupied by the light-scattering-section on said light-reflecting-and-diffusion-  
3 section increases at a greater distance from diagonal line of said light-reflecting-  
4 and-diffusion-section.

1 48. The surface lighting device as defined in Claim 45, wherein the  
2 area occupied by the light-scattering-section increases at a greater distance from  
3 said light source.

1 49. The surface lighting device as defined in Claim 45, wherein the  
2 area occupied by the light-scattering-section increases at a greater distance from  
3 an optical center axis of said light source.

1 50. The surface lighting device as defined in Claim 45, wherein the  
2 light-scattering-section is formed by printing.

1 51. The surface lighting device as defined in Claim 45, wherein the  
2 light-scattering-section is formed with fine peaks and valleys.

1           52. A portable terminal comprising:  
2           a display unit;  
3           a surface lighting device including;  
4           a light-guide-member including;  
5           a light-inlet;  
6           a light-guiding-section;  
7           a light-emitting-section; and  
8           a light source disposed on a corner of said light-guide-member; and  
9           a light-reflecting-and-diffusion-section having a light-scattering-  
10          section and a smooth section at least one of faces of said light-emitting-section,  
11          wherein a rate of an area occupied by the light-scattering-section on  
12          said light-reflecting-and-diffusion-section is uneven.